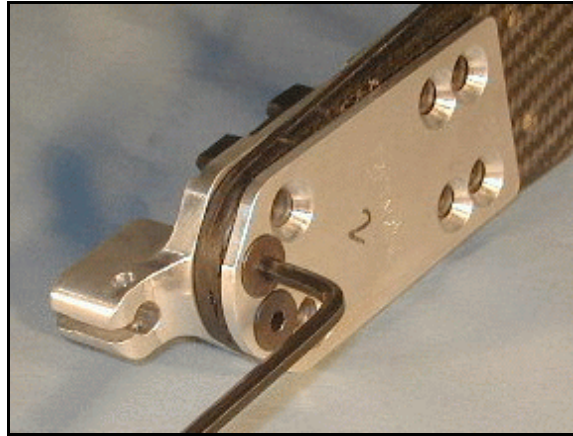


24. Position the Foot Sole Reinforcement Plate (T2FTM210) below the Composite Sole Plate (T2FTM010) with the counter sinks toward the bottom. The pointed end of the plate indicates the heel section. Position the I/E Soft Stop Assembly (T2AKM003) on top of the Composite Sole Plate and attach the assembly together using two 1/4-20 x 3/4" FHSCS {5/32}, as shown in **Figure 3.25**.



**Figure 3.25** - Attaching the I/E Soft Stop Assembly to the Composite Sole Plate

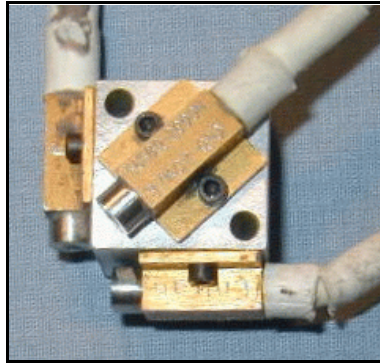
25. The mechanical ankle assembly is positioned above the I/E soft stop assembly with the Achilles Pulley Bracket toward the rear of the foot, and the X-axis accelerometer toward the front of the foot. The Ankle assembly is attached to the foot assembly with two 1/4-20 x 1" FHSCS. {5/32} in the rear mounting holes and four Ankle Mounting Bolts (T2FTM014) {5/32} in the front mounting holes. These attachment bolts pass through the six countersunk holes of the Foot Sole Reinforcement Plate, through the Composite Sole Plate, and through the I/E Soft Stop Assembly into the ankle assembly, as shown in **Figure 3.26**.



**Figure 3.26** - Attaching the Ankle

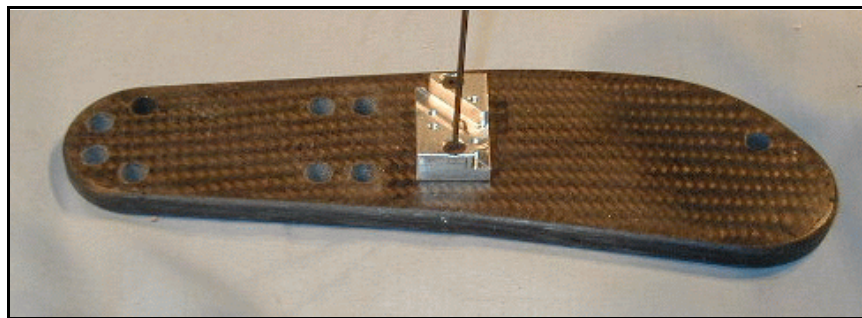
26. A triaxial accelerometer unit can be attached to a mounting plate which will be attached to the sole plate of the molded foot assembly. The THOR-FLX / HIIIR foot has been designed to accept a mounting plate for the tri-pack accelerometer configuration. The mounting procedure is explained in detail below:

Tri-Pack type accelerometers: Refer to drawing T2FTM006 for additional details. This type of triaxial accelerometer consists of a Tri-Pack Block (T1INM130) which holds three uniaxial accelerometers (T1INM110) on the outer surface. The three uniaxial accelerometers are mounted on the tri-pack block using six #0-80 x 1/4" SHCS {0.05}. The orientation of the accelerometer units is shown in **Figure 3.27**.



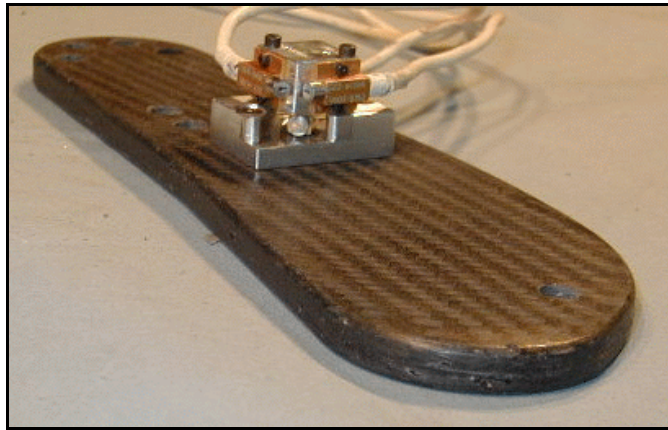
**Figure 3.27 - Tri-Pack Block**

The Foot Tri-Pack Mounting Plate (T1FTM012) is mounted onto the composite sole plate using two #4-40 x 1/2" FHSCS {1/16}, as shown in **Figure 3.28**.



**Figure 3.28 - Tri-Pack Mount Plate**

The instrumented Tri-Pack block is mounted to the top of the Foot Tri-Pack Mounting Plate (T1FTM012) using two #2-56 x 9/16" SHCS {5/64}, as shown in **Figure 3.29**. The orientation of the accelerometer units is +X forward, +Y Right, +Z Down. The Z-axis accelerometer fits into the groove machined in the mounting plate.



**Figure 3.29 - Completed Foot Accelerometer Unit**

27. Insert the rubber Heel Pad (T2FTM214) into the molded pocket on the inside of the foot skin under the ankle mounting area, as shown in **Figure 3.30**. The pad should be positioned with the rounded edge away from the sole plate.



**Figure 3.30 - Heel Pad Insertion**

28. Pass the Achilles Cable behind the Achilles Pulley Wheel which is mounted to the rear of the Ankle Upper Joint assembly. Attach the ball end of the Achilles Cable Assembly to the Achilles Mounting Post by sliding the cable section above the ball into the slot on the back of the mounting post, as shown in **Figure 3.31**.